

Technology Corner



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UDOT Research News

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LITERATURE AND INFORMATION SERVICES

NEED INFORMATION OR HELP

The Research Division (RD) of UDOT not only conducts research to help solve and address issues affecting the Department, but has at its disposal a means to provide an important service to virtually all Divisions.. This service is finding, locating, and getting information to individuals through literature searches that relates to your specific area of concern or need. All we need to know is what problems you are having and some key words to initiate the action.

One of the information services available to UDOT through the RD is that of the Transportation Research Information Services (TRIS). This data base is a computerized information file maintained and operated by the Transportation Research Board (TRB). This data base is populated by transportation information received worldwide through its exchange with various international organizations. Information on “everything you wanted to know about transportation, but was afraid to ask” can be found from this source. This means all aspects of the transportation arena including Planning, Design, Finance, Construction, Maintenance, Equipment, Traffic, Operations, Marketing, etc. This database contains more than 350,000 abstracts of completed research and summaries of research in progress. The information file provides abstracts, index terms, and bibliographic citations for records of completed research and project summary, index terms, names and telephone numbers of principal investigators and their performing agencies.

Funding for this program comes from the Federal Highway Administration (FHWA), the National Highway Safety Administration, the U.S. Department of Transportation, the fifty State Highway and Transportation Departments, and other transportation entities. UDOT annually allocates \$50,000.00 in sponsorship dues toward the maintenance and enhancement of the database. This investment entitles us to virtually unlimited use of this service.

We would encourage all Divisions to take advantage of this service by contacting the Research Division at the phone number on the newsletter. All we need, to initiate a search for you is some basic information in the form of “KEY WORDS.” These key words can range from general to specific but need to be selective enough that the search will provide you with the information you need. Some subject areas will produce excessively large data outputs if the terms are too general. The Research staff is available to help in the selection of appropriate key words if you wish.

Turn around time to complete a literature search is 3 to 7 days. The final search will provide a user with abstracts of all pertinent data relating to the subject. After reviewing the abstracts, selected publications, reports, etc. can be requested. Publication sources are listed with the abstracts. Some of these publications will require purchase, but some can be attained through TRB or other sources at no charge.



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The following list represents the most recent subject areas that have been researched for information. These searches are on file in the Research Division. If you have any interest in these subject areas or would like to initiate a search on a subject you are interested in, please contact us at 801-965-4196.

- HOV Lanes for Surface Streets
- Traffic Signal Control Plans for Inclement Weather
- Heating of Bridge Decks for Ice Control
- Life Cycle Analysis of Pavement Preservation Program
- Proper Selection of Paint Materials
- Access to Communication and Information Systems
- Public Education of Safety Issues Related to Highway Operations
- Determine Asphalt Age for Rehabilitation
- Pavement Condition Evaluation
- Identification/Quantification of Existing Stripping-Susceptible Mixtures
- Development of a Valid Warranty Specification for Rigid & Flexible Pavements
- Development of GIS for UDOT Environmental
- Sign Face Life Cycles
- Concrete Performance by using a Wet Enhancers
- Effects of Road Crossing of Flood Plane Management
- Development of Design Criteria for Natural River Bank Stabilization
- In situ Evaluation of Aluminum & Polyethylene (plastic) Pipe Installations
- Signal Timing for Severe Weather Conditions
- Ramp Meter Plans
- Benefits of Incident Management
- Rural ITS Demonstrations
- Access Management Case Studies
- Classification of Highway Systems for Multiple Seismic Design Levels
- In situ Testing of Abandoned Structures
- Lateral Load Capacity of Full-Scale Piles in Liquefied Soils
- Maintenance Management Programs for Landslides, Rockfall & Debris
- Employee Performance Measurements
- Nuclear Waste Transport
- Construction of Smart Pavements and Bridges
- Elimination of Bridge Deck Spalling
- Non Destructive Evaluation of Pavements & Bridges
- Prevention of Corrosion to Highway Dowel Bars
- Performance Evaluation of Existing Pavements
- Forensic Evaluation of Concrete
- Effects of Drainable Sub-Base on PCCP
- Maximum Interstate Lanes v.s. Annex Roadway Entity
- Toll Highways
- Traffic Routing Information
- Cold Recycling
- Pavement Preservation
- Reclaimed Asphalt Pavements
- Dynamic Cone Penetrometers

